CLAIM SUMMARY DOCUMENT:

1. (Previously amended) An isolated gene encoding a protein having activity to synthesize aurones by preferentially using chalcones as substrates, wherein said gene is obtained from *Scrophulariales*.

Claims 2-4 (Currently canceled)

- 5. (Previously amended) An isolated gene as set forth in claim 1, which encodes an amino acid sequence having a homology of at least 55% relative to the amino acid sequence described in SEQ ID NO:2, and encodes a protein having activity to synthesize aurones by preferentially using chalcones as substrates.
 - 6. (Previously amended) A vector comprising a gene as set forth in claim 1.
- 7. (Previously amended) A host cell transformed by a vector as set forth in claim 6.
- 8. (Previously amended) A host cell as set forth in claim 7, wherein said host cell is a microorganism or animal cell.

9. (Previously amended) A host cell as set forth in claim 7, wherein said host cell is a plant cell.

Claims 10-17 (Previously canceled)

18. (Previously added) An isolated nucleic acid encoding a protein having activity to synthesize aurones by preferentially using chalcones as substrates, wherein said nucleic acid is obtained from *Scrophulariales*.

Claims 19-21 (Currently canceled)

- 22. (Previously added) An isolated nucleic acid as set forth in claim 18, which encodes an amino acid sequence having a homology of at least 55% relative to the amino acid sequence described in SEQ ID NO:2, and encodes a protein having activity to synthesize aurones by preferentially using chalcones as substrates.
- 23. (Previously added) A vector comprising a nucleic acid as set forth in claim 18.
- 24. (Previously added) A host cell transformed by a vector as set forth in claim 23.

- 25. (Previously added) A host cell as set forth in claim 24, wherein said host cell is a microorganism or animal cell.
- 26. (Previously added) A host cell as set forth in claim 24, wherein said host cell is a plant cell.
- 27. (New) An isolated nucleic acid obtained from *Antirrhinum majus*, encoding a protein having an activity to synthesize aurones using chalcones as substrates.
 - 28. (New) A vector comprising a nucleic acid as set forth in claim 27.
 - 29. (New) A host cell transformed with a vector as set forth in claim 28.
- 30. (New) A host cell according to claim 29, wherein said host cell is a microorganism, an animal cell or a plant cell.
- 31. (New) An isolated nucleic acid encoding an amino acid sequence as shown in SEQ ID NO: 2.
 - 32. (New) A vector comprising a nucleic acid as set forth in claim 31.

- 33. (New) A host cell transformed with a vector as set forth in claim 32.
- 34. (New) A host cell according to claim 33, wherein said host cell is a microorganism, an animal cell or a plant cell.
- 35. (New) An isolated gene encoding a protein having activity to synthesize aurones using chalcones as substrates, wherein said protein has the amino acid sequence of SEQ ID NO: 2.
- 36. (New) An isolated nucleic acid sequence having the nucleotide sequence of SEQ ID NO:1.
- 37. (New) An isolated nucleic acid according to claim 27, wherein said encoded protein includes at least one amino acid sequence of SEQ ID NOs: 3, 4, 5, 6 and 7.
- 38. (New) An isolated nucleic acid as set forth in claim 22, which encodes an amino acid sequence having a sequence identity of at least 70% relative to the amino acid sequence described in SEQ ID NO:2.

- 39. (New) An isolated nucleic acid as set forth in claim 38, wherein said encoded protein includes at least one amino acid sequence selected from the group consisting of SEQ ID NOs:3, 4, 5, 6 and 7.
- 40. (New) An isolated nucleic acid as set forth in claim 38, which encodes an amino acid sequence having a sequence identity of at least 80% relative to the amino acid sequence described in SEQ ID NO:2.
- 41. (New) An isolated nucleic acid as set forth in claim 40, wherein said encoded protein includes at least one amino acid sequence selected from the group consisting of SEQ ID NO:3, 4, 5, 6 and 7.
- 42. (New) An isolated nucleic acid as set forth in claim 40, which encodes an amino acid sequence having a sequence identity of at least 90% relative to the amino acid sequence described in SEQ ID NO:2.
- 43. (New) An isolated nucleic acid as set forth in claim 42, wherein said encoded protein includes at least one amino acid sequence selected from the group consisting of SEQ ID NO:3, 4, 5, 6 and 7.